Wastewater Engineering Design and Construction Management Intern, City of Phoenix

Website: https://www.phoenix.gov/waterservices

Internship Start and End Dates: Fall C session, approx. mid- August through early Dec

Hours per week / total number of hours: approx. 15 hours per week

Schedule: Schedule to be determined based on student's availability during normal business hours, M-F, between the hours of 8 AM to 5 PM.

Compensation:

This internship is supported by a scholarship in the amount of $4,500.

Internship is conducted (in person, completely virtual, hybrid): in person

Organization physical address:
Phoenix City Hall, 200 W Washington St, Phoenix, AZ 85003

About City of Phoenix Water Services:

Mission: To provide high quality, reliable, and cost effective water services that meet public needs and maintain public support.

Vision: We will provide superior water services while perpetuating environmental excellence and focusing on safety

Position Description and overview:

The Wastewater Engineering Design and Construction Management intern will be working primarily with several Teams to assist with data collection and processing. The collection system team has a need for assistance with sewer video identification and verification. This task will involve the use of GIS and Waternet. They will be trained on the use of these programs and how to identify and document system defects. The facility management team plans to utilize an intern for assistance with documentation of facility assessments and energy calculations. The wastewater treatment plant team has many ongoing projects at the 3 wastewater facilities. The intern will attend meetings and assist with the overall management of the projects.

The intern will develop skills in research, management of data in spreadsheets, report generation, coordination with multiple divisions and operation staff, and use of GIS.

Deliverables:

Deliverables could include but are limited to:

- Spreadsheet of compiled and validated data
- Reports and procedures
- Project scope of work development
- Energy use calculations

- 15-minute presentation of research and work to staff and/or management

Learning Objectives / Opportunities:

Engineering is focused on problem solving an issue by designing a solution. In order to come up with the solution, engineers need to learn how to research all aspects of the problem to ensure the problem is fully-defined before jumping to a solution. The intern will have the opportunity to work for a large utility investigating real-world issues and working to define the problem while interacting with both engineering and operation staff in these efforts.

This type of work would be useful to anyone with a career focus on an area associated with water and/or wastewater engineering, utility management or water resources.

Training / Orientation:

Interns will receive training on all required software tools. All work and analytical results are closely monitored by Water Services Department staff.

Qualifications:

- Undergraduate student, must be enrolled full time during Fall C
- Completed the first two years of a civil, chemical, mechanical, or environmental degree program and have an interest in the water or wastewater industry.
- Minimum cumulative GPA of 3.0
- Good quantitative and report-writing skills
- A basic understanding of Geographic Information Systems (GIS), databases, and spreadsheets
- Intermediate proficiency MS Word and Excel;
- Ability to read, speak, write in English
- Experience in data compilation, quantification, and interpretation; graphing; and report writing
- Selected candidate will be required to complete a background check for badging and computer access.

Application Process:

- Submit resume and cover letter clearly articulating interest and qualifications for this role to: caroline.savalle@asu.edu
- Apply by July 10, 2022